

CASTLE DONINGTON
RURAL DISTRICT COUNCIL.

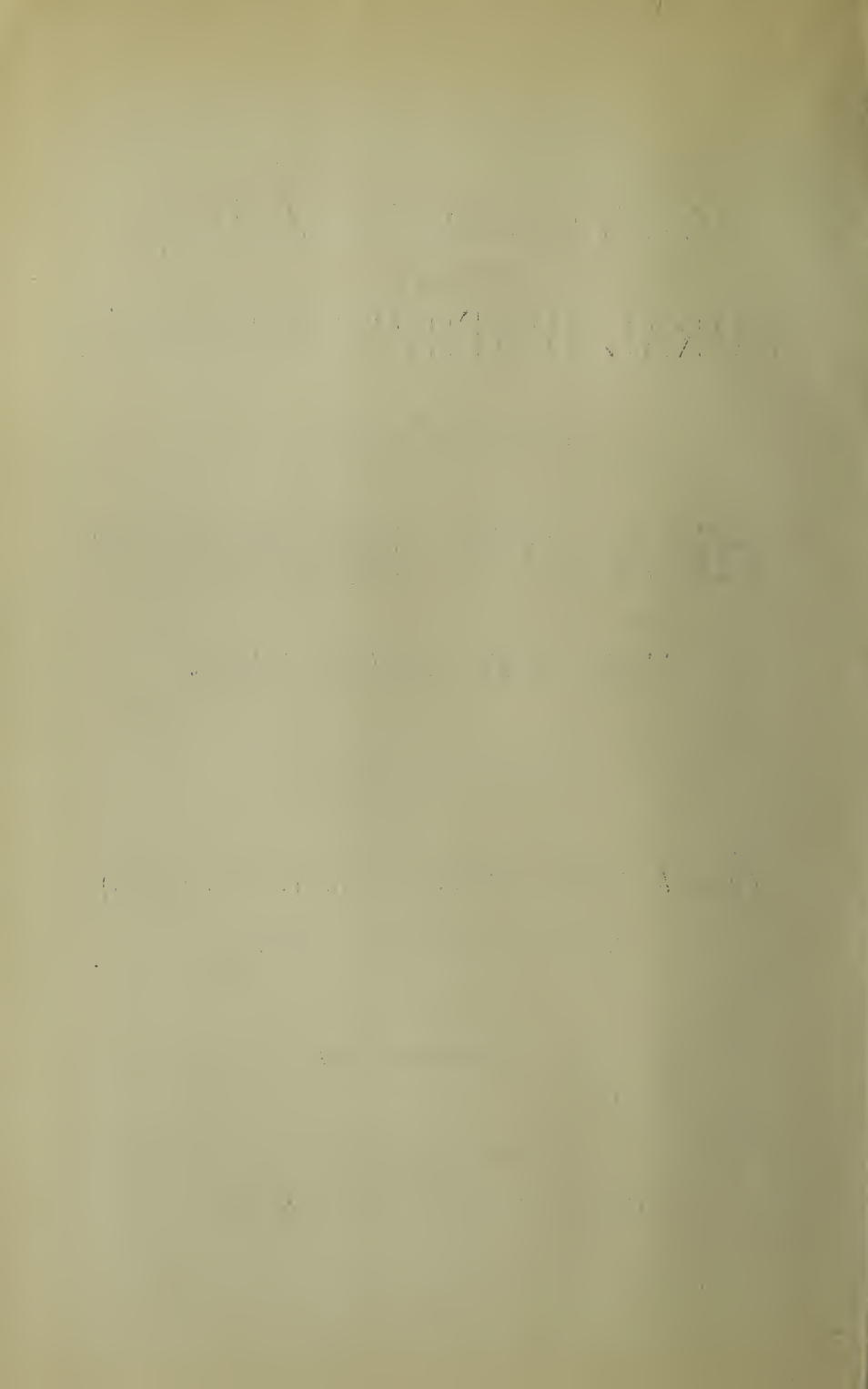
HEALTH REPORT
FOR THE YEAR 1905.

JOHN A. HOGG, M.R.C.S. (Eng.), L.R.C.P. (Lond.)

MEDICAL OFFICER OF HEALTH.

DERBY:

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HEALTH REPORT FOR 1905.

To the Chairman and Members of the Castle Donington
Rural District Council.

GENTLEMEN,

I have much pleasure in presenting my Fifth Annual Report on the health and general sanitary condition of the District.

The area of the District is 14,486 acres, or slightly over 22 square miles.

The principal geological formations found are :—

Breedon—New red marl, Keuper sandstone, and Carboniferous limestone.

Castle Donington—Keuper sandstone, with new red marl.

Diseworth, Isley Walton, Hemington—New red marl.

Lockington—Alluvium chiefly, but the village proper stands on new red marl.

Kegworth—Keuper sandstone and new red marl.

VITAL STATISTICS.

POPULATION.—At the census of 1891 the population of the District was 6,393, at that of 1901 it was 6,223. As we leave the census year, the estimation of population becomes more liable to error, and it is important that this estimate should not be too large, as upon it all vital statistics are calculated. Accordingly I have assumed that, while the decrease shown in the ten years 1891—1901, has not continued, there has been very little increase in population since the last census.

The following table shows the actual change in population between 1891—1901.

Parish.	Inhabited Houses.		Families or Separate Occupiers.	POPULATION.							
	1891	1901		Males.		Females.		Total Persons.		Increase	Decrease
				1891	1901	1891	1901	1891	1901		
Breedon ...	167	159	162	322	367	327	337	649	704	55	.
Castle Donington	604	607	615	1222	1163	1369	1351	2591	2514	...	77
Diseworth ...	89	88	88	185	203	184	180	369	383	14	...
Hemington ...	76	75	76	169	162	189	170	358	332	...	26
Isley Walton ...	7	6	6	18	23	24	20	42	43	1	..
Kegworth ...	472	464	471	1021	966	1128	1112	2149	2078	...	71
Langley Priory ...	3	3	3	5	5	11	9	16	14	...	2
Lockington ..	42	33	33	110	82	109	73	218	155	...	64
Castle Donington } Rural District }	1460	1435	1454	3052	2971	3341	3252	6393	6223	...	170

Births.—During the year, 168 births were registered,—77 males and 91 females, as compared with 148 in 1904. This gives a birth rate of 26.8 per 1000 estimated population for the year. The rates for England and Wales and Rural England and Wales were 27.9 per 1000 and 26.8 per 1000 respectively.

The excess of births over deaths was 89.

Deaths.—The number of deaths registered was 79—36 males and 43 females—as compared with 83 in 1904. The death rate was 12.6 per 1000 of the population. This is the lowest death rate recorded for the District, being 0.7 lower than that for last year, and 2.0 per 1000 below the average rate for the past ten years. The death rates for England and Wales and Rural England and Wales were 16.2 and 15.3 per 1000 population.

Infant Mortality.—During 1905, 20 infants died under one year of age, more than 25 per cent. of the total number of deaths registered. The infantile death rate was 119 per 1000 births registered, or in other words, one child out of every eight born died under one year of age. The infant mortality rate for Rural England and Wales was 125 per 1000 births. On page 17 will be found a new Table, introduced this year by the Local Government Board. It gives very detailed particulars of the causes of death and age in weeks and months of all infants dying under one year.

Zymotic Death Rate.—Epidemic diseases caused 10 deaths, viz., Measles 5, Whooping Cough 1, Membranous Croup 1, Diarrhœa 3. The mortality rate for these diseases was 1.5 per 1000 of the population, last year it was 0.9 per 1000.

The deaths were distributed as follows:—

Breedon 1	Castle Donington 2	Kegworth 7
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TABLE II.—Vital Statistics for 1905 of each Parish in the District.

Locality.	Area in Acres.	Population. Census 1891.	Population Census 1901.	Number of Births.		Number of Deaths.	Calculated on Popu- lation as estimated to middle of 1904.		Infant Deaths per 1000 Births.
				M.	F.		Birth Rate per 1000.	Death Rate per 1000.	
Breedon ...	3143	649	704	10	9	10	25.8	13.6	158
Castle Donington ...	3840	2591	2514	32	30	26	24.6	10.3	97
Diseworth ...	1961	369	383	6	2	3	20.5	7.7	125
Hemington ...	1439	358	332	6	3	5	27.1	15.0	nil
Isley Walton ...	1048	58	57	—	1	—	—	—	—
Kegworth ...	2295	2149	2078	21	43	34	30.8	16.3	140
Lockington ...	1870	219	155	2	3	1	32.2	6.5	200
Whole District ...	15,398	6393	6223	77	91	79	26.8	12.6	119

INFECTIOUS DISEASES.

Total number of cases notified, 23, consisting of Scarlet Fever 22, Membranous Croup 1. *Houses infected 20. Death 1.*

PREVENTIVE MEASURES.—Every house infected with notifiable infectious disease was visited by me upon receipt of the notification. Important cases also received other visits to make sure that the instructions given were being obeyed. Directions were given as to isolation of the patient and the necessary steps to prevent spread of the disease. Printed sheets, containing hints on the management of the case and stating the penalties for neglect, were left at all infected houses. Where necessary disinfectants were supplied to persons unable to obtain them for themselves. In cases where people appeared unable or unlikely to carry out proper disinfection of the house, the work was done by the authority.

When unsanitary conditions were found at premises where infectious disease occurred, notice for their removal was served by the Inspector and obeyed in all instances.

It was not possible during the whole year to move any patient to the Draycott Isolation Hospital. Whenever a case occurred which it appeared desirable to remove, there were always more than twelve patients in hospital, and it was therefore not available. I am afraid we cannot consider the arrangement with the Hospital Committee to be of the slightest value to the Castle Donington District.

Regular visits were paid to various Schools in the District and inquiries made as to the general health of the children and the prevalence of any non-notifiable infectious disease. If there was any suspicion that a child was kept from school on account of infectious disease, I also paid a visit to its home.

SMALL POX.—Fortunately no case occurred during the year. The provision of accommodation for Small Pox patients is in the hands of the County Council.

SCARLET FEVER.—Cases notified 22; houses infected 19; deaths nil.

The notifications were distributed as follows:—Breedon 3, Castle Donington 6, Hemington 4, Kegworth 7, Lockington 2.

The disease was of a very mild type and none of the cases were of sufficient importance to call for detailed comment.

I did not find it necessary to close any school on account of Scarlet Fever during the year.

DIPHTHERIA.—No case was notified throughout the year. One death at Kegworth, an infant, was due to Membranous Croup.

ENTERIC FEVER.—The District was entirely free from this disease all through the year. It is very satisfactory to be able to record this, as it is the first year since 1895 (when the District was separated from the old Shardlow Sanitary Authority) in which no case of Typhoid Fever has been reported. I think it is only fair to assume that this is greatly due to the improvements in general sanitary condition which have been made in the past eight or ten years.

MEASLES.—A considerable outbreak occurred at Kegworth early in the year. The disease was of a severe character and caused 5 deaths. The schools were closed by my advice, on account of this outbreak, from February 21st to March 13th.

WHOOPING COUGH caused one death at Breedon. There was an outbreak in September and October, and the schools were closed by the County Education Committee on account of it.

DIARRHŒA was responsible for 3 deaths, all infants under one year of age.

PHTHISIS.—Two deaths, one at Castle Donington and one at Kegworth.

Water Supply.—There has been a further extension of the public supplies at Castle Donington and Kegworth. Eight samples of well water were examined by me and seven were found to be polluted. The analyses were made towards the end of the year and the public supply had not been substituted before its termination. There are not many houses in Kegworth now where tap water would be available which are not provided with it.

EXCREMENT AND SEWAGE DISPOSAL.—Attention was paid to these matters during the year, but the much needed public scavengers have not yet been appointed. More and more difficulty in getting ashpits emptied is experienced every year, and while so many privy middens, usually of huge dimensions, exist in the District, it is impossible to deal with them in a satisfactory manner without a scavenger, whose duty it would be to empty them regularly before they became full to overflowing with decomposing filth, their usual condition at present. In villages the ashpit privy is unavoidable and is, in my opinion, superior to the pail closet, so long as the pit is made of a moderate size, say, never

to exceed 40 feet capacity. In the places having a proper sewerage system however they should not be permitted under any circumstances. Only nine privies were converted to water closets during the year.

DRAINAGE.—The house drainage in Castle Donington and Kegworth is, generally speaking, good. Most of the houses are connected with the public sewers, and in the more modern houses the drains are properly trapped with earthenware gullies. In the older properties however the usual trap is a bell or D. These are never to be trusted, and during the year they have been receiving attention. It will be seen from the Inspector's Report that 74 notices were served in connection with drainage; a large proportion of these were for the provision of gullies in place of inefficient traps.

SYSTEMATIC INSPECTION.—From time to time I make systematic inspection of the District with the Inspector. In the course of these various insanitary conditions were found and due notices were served for their removal. Attention was given principally to drainage, privy accommodation, water supply, overcrowding, and general cleanliness.

Two cases of overcrowding at Kegworth, were found and abated. In both cases without any trouble or formal notice.

No house unfit for habitation, or case of unsound meat exposed for sale, came under my notice during the year.

FACTORY AND WORKSHOP ACT, 1901.—The provisions of this Act have been carried out to a certain extent. A Register of Workshops, &c., and outworkers is kept by the Inspector. The principal workshop industry is basket making at Castle Donington. Some of these workshops are in a poor state, and as the

trade is improving it is to be hoped that some improvement in their condition will be made.

The bakehouses throughout the District have received regular attention and are all in very good condition. There are no underground bakehouses to deal with.

Two cases of infectious disease occurred in the houses of out-workers. The work was stopped for a time without difficulty.

No instance of the employment of a protected person in a workshop where no Abstract of the Act was posted up came under my notice during the year.

Appended are Tables I to V of the Local Government Board, a table showing work done under the Factory Act, and Tables showing action taken by the Sanitary Inspector during the year.

I am, Gentlemen,

Yours obediently.

JOHN A. HOGG.

Shardlow, Feb., 1906.



TABLE I.

Vital Statistics of whole District during 1905 and previous years.

CASTLE DONINGTON RURAL DISTRICT.

Year.	Population estimated to middle of each Year.	BIRTHS.		Total Deaths Registered in the District.			
		Number	Rate.*	Under 1 year of age		At all ages.	
				Number	Rate per 1000 Births Registered.	Number	Rate.*
1	2	3	4	5	6	7	8
1895	6,313	171	27.0	28	164	101	15.9
1896	6,304	180	28.5	20	111	88	13.9
1897	6,293	153	24.3	22	144	101	16.0
1898	6,283	161	25.6	21	130	98	15.7
1899	6,264	166	26.5	26	157	110	17.5
1900	6,254	158	25.4	14	89	87	13.9
1901	6,223	164	26.3	24	146	93	14.9
1902	6,223	164	26.3	23	140	98	15.7
1903	6,223	146	23.4	20	137	87	13.9
1904	6,223	148	23.7	19	128	83	13.3
Averages for years 1895-1904	6,260	161	25.7	21	134	94	15.0
1905	6,258	168	26.8	20	119	79	12.6

* Rates in Columns 4 and 8 calculated per 1000 of estimated population.

NOTE.—The deaths included in Column 7 of this Table are the whole of those registered during the year as having actually occurred within the District.

Area of District in Acres (exclusive of area covered by water)—**15,398.**

Total Population at all ages—**6,223** (Census 1901).

Number of Inhabited Houses—**1,453** (Census 1901).

Average Number of Persons per House—**4.3** (Census 1901.)

Table II—VITAL STATISTICS OF SEPARATE LOCALITIES in 1905 & Previous Years.
CASTLE DONINGTON RURAL DISTRICT.

Names of Localities.	WHOLE DISTRICT.				BREEDON.				CASTLE DONINGTON.				DISEWORTH.			
Year.	Population estimated to middle of each year.	Births Registered.	Deaths at all Ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births Registered.	Deaths at all Ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births Registered.	Deaths at all Ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births Registered.	Deaths at all Ages.	Deaths under 1 year.
	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d
1895	6313	171	101	28	675	18	9	3	2561	63	40	11	373	9	5	1
1896	6304	18	88	20	679	18	10	5	2550	74	42	10	374	15	7	1
1897	6293	153	101	22	683	15	12	2	2541	57	45	10	376	8	5	1
1898	6283	161	98	21	688	10	7	0	2529	75	50	10	377	16	5	1
1899	6264	166	110	26	693	19	9	3	2520	59	46	12	379	9	7	2
1900	6254	158	87	14	698	23	4	1	2520	66	42	6	381	11	6	3
1901	6223	164	93	24	705	23	16	2	2524	60	43	14	383	14	4	1
1902	6223	164	98	23	711	19	12	3	2524	59	38	11	384	9	9	4
1903	6223	146	87	20	718	22	8	1	2524	53	27	5	386	12	8	2
1904	6223	148	83	19	726	16	4	2	2524	70	41	9	386	7	11	1
Averages of Years 1895 to 1904	6260	161	94	21	697	18	9	2	2529	63	41	9	380	11	7	2
1905	6258	168	79	20	735	19	10	3	2524	62	26	6	389	8	3	1

Names of Localities.	HEMINGTON.				ISLEY WALTON.				KEGWORTH.				LOCKINGTON.			
Year.	Population estimated to middle of each year.	Births Registered.	Deaths at all Ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births Registered.	Deaths at all Ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births Registered.	Deaths at all Ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births Registered.	Deaths at all Ages.	Deaths under 1 year.
	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d
1895	350	13	4	0	42	3	0	...	2121	59	40	13	155	6	3	...
1896	348	7	1	0	42	1	2	...	2114	62	20	4	155	4	4	...
1897	345	15	7	4	42	0	0	...	2108	54	31	5	155	4	3	...
1898	343	9	5	2	42	3	2	...	2101	59	29	8	155	6	0	...
1899	339	14	5	1	42	2	1	...	2094	57	42	8	155	6	0	...
1900	335	8	3	0	42	0	0	...	2088	46	31	3	155	4	1	...
1901	332	7	4	0	43	1	1	...	2078	57	21	5	155	2	4	2
1902	332	12	8	4	43	0	0	...	2078	62	31	1	155	2	0	...
1903	332	6	6	3	43	0	0	...	2078	50	34	8	155	3	4	1
1904	332	11	3	2	43	0	0	...	2078	40	24	5	155	4	0	...
Averages of Years 1895 to 1904	338	11	4	1	42	1	1	...	2094	54	30	6	155	4	2	...
1905	332	9	5	0	43	1	...	...	2078	64	34	9	155	5	1	1

Table III.—CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1905.
CASTLE DONINGTON RURAL DISTRICT.

NOTIFIABLE DISEASE.	Cases Notified in whole District.						Total Cases Notified in each Locality.						
	At all Ages.	At Ages — Years.					Breedon.	Castle Donington.	Diseworth.	Hemington.	Isley Walton.	Kegworth.	Lockington.
		Under 1	1 to 5	5 to 15	15 to 25	25 to 65								65 and upwards
Small Pox
Cholera
Diphtheria
Membranous croup	...	1	...	...	...	...	...	...	...	...	...	1	...
Erysipelas
Scarlet Fever	...	22	6	9	3	4	3	6	...	4	...	7	2
Typhus Fever
Enteric Fever
Relapsing Fever...
Continued Fever
Puerperal Fever...
Plague
Total	23	7	9	3	4	...	3	6	...	4	...	8	2

NOTE.—The Localities adopted for this Table are the same as those in Tables II and IV.

Table IV.—CAUSES OF, AND AGES AT, DEATH DURING YEAR 1905.
CASTLE DONINGTON RURAL DISTRICT.

CAUSES OF DEATH.	Deaths in or belonging to whole District at subjoined Ages.							Deaths in or belonging to Localities (at all Ages.)						
	All Ages.	Under 1 year.	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards.	Breedon.	Castle Donington	Diseworth	Hemington	Isley Walton.	Kegwarth.	Lockington
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Small Pox ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Measles	5	...	5	...	...	...	...	...	...	...	...	...	5	...
Scarlet Fever ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough ...	1	1	...	...	...	...	...	1	...	...	...	...	...	...
Diphtheria & Mem- branous Croup ...	1	1	...	...	...	...	...	...	...	...	...	...	1	...
Croup ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fever { Typhus ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
{ Enteric ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
{ Other cont'd ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Epidemic Influenza ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cholera ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Plague ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diarrhœa (see notes) ...	3	3	...	...	...	...	...	...	2	...	...	...	1	...
Enteric (see notes) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Fever ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Septic diseases ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Phthisis	2	...	...	...	...	2	...	...	1	...	...	...	1	...
Other Tubercular Diseases	1	...	...	1	...	...	...	...	...	...	...	...	1	...
Cancer, Malignant Disease	4	...	...	...	...	3	1	...	2	...	...	...	2	...
Bronchitis	7	3	2	...	...	...	2	2	...	1	1	...	2	1
Pneumonia	6	3	1	...	...	1	1	...	2	1	...	...	3	...
Pleurisy ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Diseases of Respiratory Organs ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Alcoholism	2	...	...	...	...	...	2	...	...	...	...	...	2	...
Cirrhosis of Liver ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Veneral Disease ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Premature Birth	3	3	...	...	...	...	...	...	2	...	...	...	1	...
Diseases & Accidents of Parturition	2	...	...	...	...	2	...	...	1	...	...	...	1	...
Heart Diseases	9	...	...	...	...	2	7	2	3	...	3	...	1	...
Accidents	2	...	...	...	...	2	...	1	...	...	1	...	...	...
Suicides	2	...	...	...	1	1	...	...	1	...	...	...	1	...
All other causes	29	6	2	...	2	4	15	4	12	1	...	...	12	...
All causes	79	20	10	1	3	17	28	10	26	3	5	...	34	1

TABLE V.—CASTLE DONINGTON RURAL DISTRICT.

INFANTILE MORTALITY DURING THE YEAR 1905.

Deaths from stated Causes in Weeks and Months under One Year of Age.

CAUSE OF DEATH.				Under 1 Week	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-2 Months.	2-3 Months.	3-4 Months.	4-5 Months.	5-6 Months.	6-7 Months.	7-8 Months.	8-9 Months.	9-10 Months.	10-11 Months.	11-12 Months.	Total Deaths under 1 Year.
All Causes	Certified .. ..	..	..	5	...	2	...	7	1	...	1	1	2	..	..	2	...	4	1	19
	Uncertified .. ..	..	..	...	...	...	...	...	...	...	..	..	..	1	...	..	..	..	..	1
Common Infectious Diseases	Small Pox .. ..	..	..	...	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..
	Chicken Pox .. ..	..	..	...	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..
	Measles .. ..	..	..	...	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..
	Scarlet Fever ..	..	..	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..	..
	Diphtheria: Croup ..	..	..	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..	1	1
Diarrhoeal Diseases	Whooping Cough ..	..	..	...	...	...	...	...	...	1	...	..	1	..	..	..	..	..	..	1
	Diarrhoea, all forms ..	..	..	1	...	...	...	1	...	...	..	1	1	..	..	..	..	..	..	3
	Enteritis .. ..	..	..	...	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..
	(not Tuberculous) ..	..	..	...	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..
	Gastritis, Gastro intestinal Catarrh ..	..	..	...	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..
Wasting Diseases	Premature Birth ..	..	..	3	...	...	...	3	...	...	..	..	..	..	..	..	..	..	..	3
	Congenital Defects ..	..	..	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..	..
	Injury at Birth ..	..	..	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..	..
	Want of Breast Milk ..	..	..	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..	..
	Atrophy, Debility, Marasmus ..	..	..	...	...	1	...	1	...	...	..	..	..	..	..	..	..	..	..	1
Tuberculous Diseases	Tuberculous Meningitis ..	..	..	...	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..
	Tuberculous Peritonitis ..	..	..	...	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..
	Tubes Mesenterica ..	..	..	...	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..
	Other Tuberculous Diseases ..	..	..	...	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..
	Erysipelas .. ..	..	..	...	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..
	Syphilis .. ..	..	..	...	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..
	Rickets .. ..	..	..	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..	..
	Meningitis .. ..	..	..	...	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..
	(not Tuberculous) ..	..	..	...	...	...	...	...	...	...	...	...	..	..	..	..	..	1	..	1
	Convulsions .. ..	..	..	1	...	1	...	2	...	...	..	..	1	...	..	..	..	..	..	3
	Bronchitis .. ..	..	..	...	...	...	...	1	...	...	..	..	..	..	1	..	..	1	..	3
	Laryngitis .. ..	..	..	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..	..	..
	Pneumonia .. ..	..	..	...	...	...	...	...	...	...	..	1	...	..	..	..	..	2	..	3
	Suffocation, overlaying ..	..	..	...	...	...	...	...	...	...	...	..	..	..	..	..	..	..	..	..
	Other Causes .. ..	..	..	...	...	...	...	...	...	...	...	..	..	..	1	..	..	..	..	1
				5	...	2	...	7	1	...	1	1	2	1	...	2	...	4	1	20

Deaths from all Causes at all Ages, 79.

Population, estimated to middle of 1905, 6258.

Table VI—REPORT ON FACTORIES, WORKSHOPS,
LAUNDRIES, WORKPLACES, & HOMEWORK.

Factories	...	...	...	No. of inspections	...	16
Workshops	...	...	...	,,	,,	84
Total						100

Defects found:—

Nuisances under Public Health Acts—

Want of Cleanliness	...	...	...	...	5
Remedied	...	...	...	...	5
Defective Sanitary Accommodation	...	...	...	...	1
Remedied	..	...	...	...	1
Breach of special regulations for Bakehouses...	...	...	...	...	3
Remedied	...	...	...	...	3
Total					28

Homework :—

No. of Lists received	14
No. of Outworkers	148

Workshops :—

No. on Register at end of 1905	57
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Castle Donington Rural District Council.

SANITARY INSPECTOR'S REPORT.

Complaints	Number received	...	42
Premises, Houses, &c.	...	...	...	Number inspected	...	1408
Pool, Ditch, Watercourse	...	...	...	Number inspected	...	19
				Nuisances abated	...	19
Privy, Urinal, Cesspool, Ashpit				Number inspected	...	1136
				Nuisances abated	...	607
Drains, Traps, &c.	...	...	...	Number inspected	...	508
				Nuisances abated	...	74
Offensive Accumulations	...	...	...	Number inspected	...	38
				Nuisances abated	...	38
Slaughter-houses	...	...	...	Number inspected	...	36
Canal Boats	...	...	...	Number inspected	...	14
Houses disinfected after infectious disease					...	5
House Sanitation :—						
Privy-middens	...	...	...	New provided	...	8
				Converted to Pails	...	0
				Converted to W.C.s	...	9
Pail Closets	...	...	...	New provided	...	0
				Converted to W.C.s	...	0
Water Closets	...	...	...	New provided	...	9
Ashpits	...	...	...	New provided	...	0

Water Supply :—

Samples taken for Analysis	...	...	...	...	8
Ditto condemned	...	...	...	...	7
Public supply substituted for well	...	...	...	...	1

FACTORY AND WORKSHOP ACT, 1901.

Workshops	...	No. on Register (including Bakehouses)	...	57
		No. in which nuisances abated	...	21
Bakehouses	...	No. on Register	...	16
		No. in which nuisances abated	...	3
Homework	...	No. of Outworkers	...	148
		No. of Houses	...	148
		Infected Houses	...	2

FRANCIS HALLADAY,

SANITARY INSPECTOR.

February, 1906.

